

1 What is claimed is:

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3 1. A canister-purge valve for the metered admixing of a fuel scavenged from
4 a fuel tank of an internal combustion engine into the internal combustion
5 engine, with a valve seat and a valve body movably located relative to the
6 valve seat, whereby a sealing element is provided on the side of the valve
7 body facing the valve seat and a damping element is provided on the side
8 of the valve body facing away from the valve seat,
9 wherein the sealing element (40) is made of a first elastomer and the
10 damping element (41) is made of a second elastomer with different
11 properties than the first elastomer.

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13 2. The canister-purge valve as recited in Claim 1,
14 wherein the first elastomer and/or the second elastomer are composed of
15 a fluorosilicone and a silicone.

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17 3. The canister-purge valve as recited in Claim 1,
18 wherein the first elastomer and/or the second elastomer are composed of
19 Viton or another suitable elastomer.

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21 4. The canister-purge valve as recited in Claim 2,
22 wherein the second elastomer includes a higher proportion of
23 fluorosilicone than the first elastomer.

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25 5. The canister-purge valve as recited in Claim 2,
26 wherein a ratio of fluorosilicone to silicone in the first elastomer is one to
27 one.

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29 6. The canister-purge valve as recited in Claim 2,
30 wherein a ratio of fluorosilicone to silicone in the second elastomer is nine
31 to one.

1 7. The canister-purge valve as recited in Claim 1,
2 wherein the first elastomer and the second elastomer have different Shore
3 hardnesses.

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5 8. The canister-purge valve as recited in Claim 1,
6 wherein the valve body (32) includes a metallic main body (36) on which
7 the sealing element (40) and the damping element (41) are located.

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9 9. The canister-purge valve as recited in Claim 7,
10 wherein the sealing element (40) and the damping element (41) are
11 integrally extruded on the metallic main body (36) of the valve body (32)
12 using injection molding, preferably a 2-component injection-molding
13 method.

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15 10. The canister-purge valve as recited in Claim 7,
16 wherein a diaphragm element (44) is located on the side of the metallic
17 main body (36) facing away from the valve seat (25), the diaphragm
18 element movably supporting the valve body (32) between the valve seat
19 (25) and a stop (20).

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